

Testing Results for *Borrelia burgdorferi* (Lyme Disease Agent) From Western Black-Legged Ticks (*Ixodes pacificus*)



Lyme disease

Lyme borreliosis describes human infection with a tick-borne bacteria called *Borrelia burgdorferi*. The tick that transmits this bacteria to humans in California is the western black-legged tick (*Ixodes pacificus*). An informational brochure on Lyme disease in California is available at the California Department of Health Services (DHS) web site: <http://www.dhs.ca.gov/ps/dcdc/pdf/disbindex.htm>.

Tick-testing results

The Vector-Borne Disease Section (VBDS) collects data on *Ixodes pacificus* ticks tested for *Borrelia burgdorferi* infection throughout the state. In addition to surveillance conducted by VBDS, numerous local agencies forward results to VBDS (see “Contributing Agencies” below). *Borrelia burgdorferi* surveillance in ticks serves to increase public awareness of Lyme disease throughout California.

Explanation of tests used to detect evidence of *B. burgdorferi* infection in ticks

Borrelia burgdorferi bacteria are detected in ticks through tests performed on the content of the tick’s digestive tract (“gut”) or by testing the entire tick. Different laboratories performed different tests to determine tick infection with *Borrelia burgdorferi*. Each test type described below has different abilities to detect the *Borrelia burgdorferi* bacteria. Also, some laboratories prefer to group several ticks together in “pools” (usually 2 to 10 ticks per pool) to perform one test on several ticks at once. Because of differences in laboratory techniques and procedures, results should be compared only between the same tests and laboratories.

Culture: *Borrelia burgdorferi* bacteria can be grown from infected tick gut in special liquid. This test may miss some ticks infected with *Borrelia burgdorferi*. It is sometimes difficult to grow this bacteria if small numbers of *Borrelia* or large numbers of other bacteria are present.

DFA = Direct Fluorescent Antibody: *Borrelia* bacteria are detected in tick gut by putting on special proteins that will attach to the *Borrelia* bacteria. If *Borrelia* are present, they will glow when viewed under a specially equipped microscope. A positive result means that *Borrelia* bacteria are present, though not necessarily *Borrelia burgdorferi*.

IFA=Indirect Fluorescent Antibody: The IFA is like the DFA except that a sequence of two special proteins are used to detect *Borrelia burgdorferi* in the tick gut. If *Borrelia* are present, they will glow when viewed under a specially equipped microscope. Like the DFA, this test can detect other kinds of *Borrelia* bacteria. However, with the IFA, positive results are more likely to be *Borrelia burgdorferi*.

PCR=Polymerase chain reaction: PCR is used to detect DNA of *Borrelia burgdorferi*, usually from the whole tick. This method can detect either *Borrelia burgdorferi* only or many different kinds of *Borrelia*, depending on how the laboratory runs the test. Very small numbers of *Borrelia* organisms can be detected. However, sometimes ticks that do not have any *Borrelia* can be “positive”.

Contributing Agencies

In addition to VBDS, agencies that have contributed to this database include:

- Alameda County Vector Control and Surveillance Division
- Butte County Mosquito and Vector Control District
- City of Moorpark Vector Control
- Contra Costa County Mosquito and Vector Control District
- Inyo County Environmental Health
- Los Angeles County Department of Health Services
- Los Angeles County West Vector Control District
- Marin/Sonoma Mosquito and Vector Control District
- Microbial Disease Laboratory Branch, California Department of Health Services
- Orange County Vector Control District
- Placer County Public Health Laboratory
- Rocky Mountain Laboratories, National Institutes of Health
- San Bernardino County Environmental Health Department
- San Diego County Environmental Health Department
- San Luis Obispo County Health Department
- San Mateo County Mosquito Abatement District
- Santa Barbara County Health Department
- Santa Barbara Coastal Vector Control District
- Santa Cruz County Environmental Health Department
- University of California, Berkeley
- United States Army Center for Health Promotion & Preventive Medicine-West
- Washoe County Environmental Health Department, Nevada

How to use this web posting

A map below shows *Ixodes pacificus* presence and *B. burgdorferi* infection in ticks in California. Detailed data for counties with a dashed square in the center ([]) can be accessed by clicking on the square. The map also shows that positive *Ixodes pacificus* ticks have been identified in Contra Costa, Marin, Monterey, Orange, and San Diego counties. VBDS does not have detailed data for all counties because these data were provided to VBDS in summary format only. To return to the map, right-click with your mouse and hit "Go Back" or scroll to the top of the document.

Abbreviations used in the data for most counties

County information provided includes:

LOCATION	DATE	SPECIME	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
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<u>Location</u>	= site in the county where the tick was found
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<u>Date</u>	= date the tick was collected
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<u>Specime</u>	= specimen. This refers to the stage or sex of the tick. Adult, nymph, and larva ticks are tested. For some adult ticks, female or male is noted.
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<u>Result</u>	= the result of the test (positive or negative)
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<u>#Pooled</u>	= Total number of ticks tested.
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<u>#Pools</u>	= Number of pools into which the total number of ticks were divided for testing
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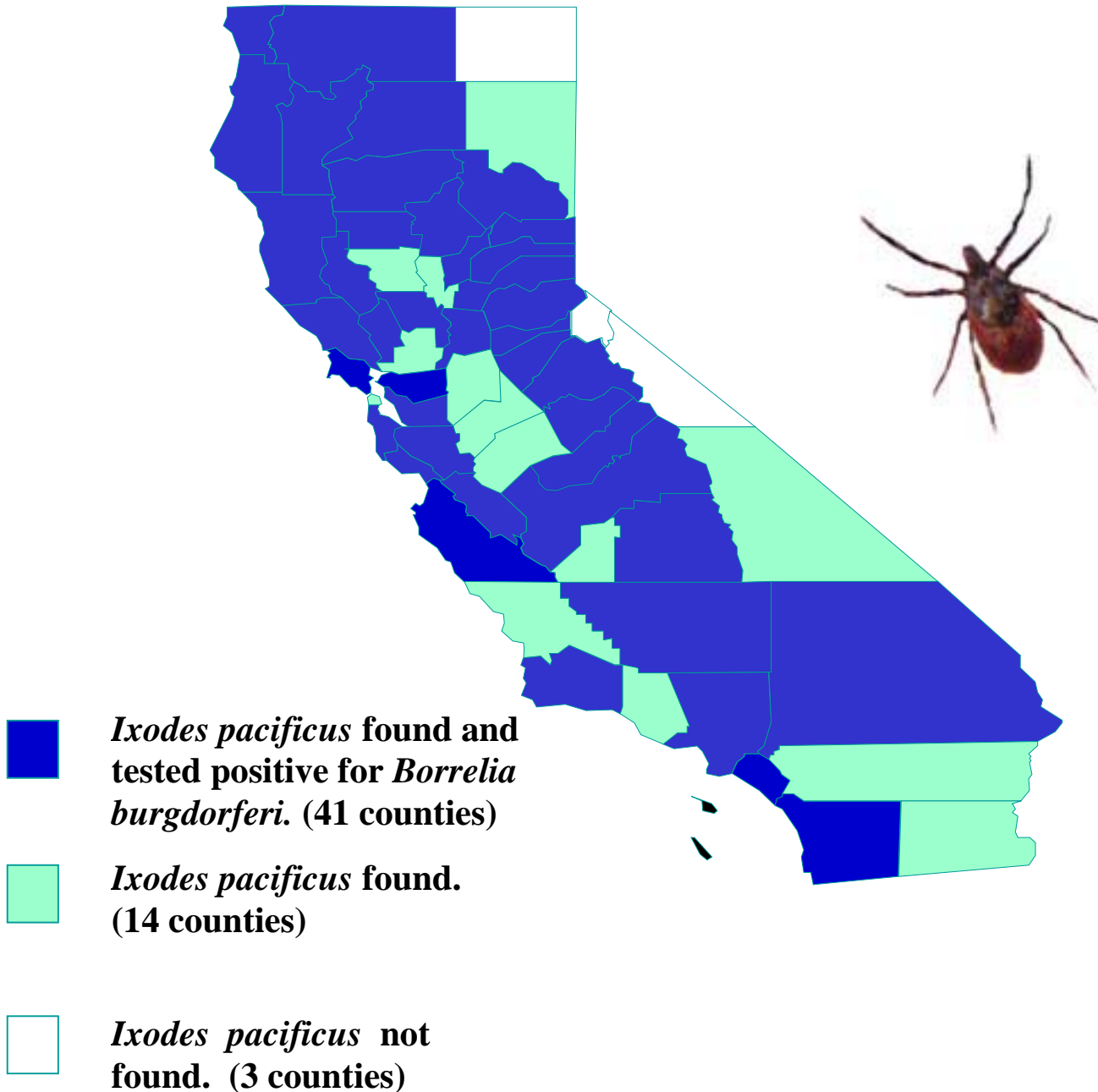
<u>#Pos</u>	= The number of positive pools
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<u>Test</u>	= The type of test performed
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<u>Laboratory</u>	= The laboratory that performed the test
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For the tick map and data, [clickhere](#) or scroll to the next page.

The western black-legged tick (*Ixodes pacificus*) in California



The western black-legged tick (*Ixodes pacificus*) has been found in 55 of 58 counties to date. The map generalizes available data, and patterns may vary within counties.

Tick-borne Diseases Surveillance Program
Laboratory Tick Pool Results

Agent: B burgdorferi
Species I pacificus

May 29, 2002

LOCATION	DATE	SPECIME	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Alameda</u>								
Chabot Regional Park	01/22/86	Adults	NEG	15	15	0	Culture	CDHS, MDL
Del Valle Reg Park	02/18/88	Adults	POS	109	11	3	Culture	CDHS, MDL
Roberts Regional Park	03/26/86	Females	NEG	1	1	0	Culture	CDHS, MDL
Roberts Regional Park	03/26/86	Males	NEG	1	1	0	Culture	CDHS, MDL
Roberts Regional Park	04/25/93	Adults	POS	506	51	2	IFA	UC Berkeley
Sunol Regional Park	04/06/00	Adults	POS	25	5	1	IFA	Alameda Co PH
				<u>657</u>	<u>84</u>	<u>6</u>		

LOCATION	DATE	SPECIME	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Amador</u>								
Jackson	02/21/90	Adults	NEG	21	2	0	Culture	CDHS, MDL
Pioneer	04/20/90	Adults	POS	26	3	1	Culture	CDHS, MDL
				<u>47</u>	<u>5</u>	<u>1</u>		

LOCATION	DATE	SPECIME	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Butte</u>								
Big Bend	02/28/89	Adults	POS	109	11	1	Culture	CDHS, MDL
Oroville	02/18/87	Adults	NEG	4	1	0	Culture	Rocky Mt Lab
Oroville, 7 mi E	03/18/99	Adults	POS	130	13	5	IFA	Rocky Mt Lab
Swedes Flat	02/27/89	Adults	NEG	49	5	0	Culture	CDHS, MDL
				<u>292</u>	<u>30</u>	<u>6</u>		

LOCATION	DATE	SPECIME	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Calaveras</u>								
Murphys	02/28/90	Adults	POS	44	4	1	Culture	CDHS, MDL
				<u>44</u>	<u>4</u>	<u>1</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Contra Costa</u>								
Robert Sibley Regional Park	01/22/86	Adults	NEG	63	63	0	Culture	CDHS, MDL
Robert Sibley Regional Park	03/26/86	Adults	NEG	6	6	0	Culture	CDHS, MDL
Robert Sibley Regional Park	01/15/87	Adults	NEG	24	24	0	Culture	CDHS, MDL
Robert Sibley Regional Park	01/28/88	Adults	NEG	200	20	0	Culture	CDHS, MDL
Tilden Regional Park	02/05/87	Adults	NEG	30	30	0	Culture	CDHS, MDL
Tilden Regional Park	01/14/88	Adults	NEG	105	11	0	Culture	CDHS, MDL
Tilden Regional Park	01/21/88	Adults	NEG	87	9	0	Culture	CDHS, MDL
				<u>515</u>	<u>163</u>	<u>0</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Del Norte</u>								
Del Norte SP, Enderts Beach	03/06/85	Adults	POS	34	3	2	Culture	CDHS, MDL
Del Norte SP, Enderts Beach	02/10/87	Adults	NEG	27	3	0	Culture	CDHS, MDL
Klamath NF, Yurok Indian Res.	02/10/87	Adults	NEG	16	16	0	Culture	CDHS, MDL
Six Rivers NF, Big Flat CG	03/15/00	Adults	POS	23	3	1	IFA	Washoe Co EH
Six Rivers NF, Big Flat CG	04/11/00	Adults	NEG	15	2	0	IFA	Washoe Co EH
Six Rivers NF, Big Flat CG	05/03/00	Adults	NEG	2	1	0	IFA	Washoe Co EH
Six Rivers NF, Grassy Flat CG	04/11/00	Adults	NEG	2	1	0	DFA	Placer Co HD
Six Rivers NF, Partick Creek CG	03/15/00	Adults	NEG	2	0	0	IFA	Washoe Co EH
Six Rivers NF, Patrick Creek CG	03/15/00	Adults	NEG	4	0	0	IFA	Washoe Co EH
				<u>125</u>	<u>29</u>	<u>3</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>El Dorado</u>								
El Dorado	11/27/87	Adults	NEG	10	1	0	Culture	CDHS, MDL
El Dorado	02/23/89	Adults	NEG	27	3	0	Culture	CDHS, MDL
El Dorado	11/13/89	Adults	NEG	42	4	0	Culture	CDHS, MDL
Georgetown	12/07/89	Adults	POS	33	3	1	Culture	CDHS, MDL
				<u>112</u>	<u>11</u>	<u>1</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Fresno</u>								
Sequoia NF, Armenian Church Camp	03/14/00	Adults	NEG	4	1	0	PCR	US Army
Sequoia NF, Hwy 180 & Hwy 245	03/15/00	Adults	NEG	1	1	0	PCR	US Army
Sequoia NF, Mill Flat CG	12/16/86	Adults	NEG	29	29	0	Culture	CDHS, MDL
Sequoia NF, roadside pullout Hwy 180	03/14/00	Adults	NEG	11	2	0	PCR	US Army
Sierra NF, Kirch Flat CG	12/16/86	Adults	POS	22	2	1	Culture	CDHS, MDL
Sierra NF, Trimmer	12/16/86	Adults	NEG	13	13	0	Culture	CDHS, MDL
Wonder Valley	03/12/87	Adults	NEG	4	1	0	Culture	Rocky Mt Lab
				<u>84</u>	<u>49</u>	<u>1</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Glenn</u>								
Elk Creek, 10 mi w; Ivory Mill Road	03/10/92	Adults	POS	30	3	2	Culture	Rocky Mt Lab
Mendocino NF, Alder Springs	02/27/91	Adults	NEG	50	5	0	Culture	CDHS, MDL
Stonyford	03/31/87	Females	NEG	3	3	0	Culture	CDHS, MDL
Stonyford	03/31/87	Males	NEG	1	1	0	Culture	CDHS, MDL
				<u>84</u>	<u>12</u>	<u>2</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Humboldt</u>								
Albee HRSP	01/21/87	Adults	NEG	1	1	0	Culture	CDHS, MDL
Alderpoint	12/11/84	Females	NEG	5	5	0	Culture	CDHS, MDL
Alderpoint	12/11/84	Males	NEG	10	10	0	Culture	CDHS, MDL
Alderpoint	05/20/85	Adults	NEG	3	3	0	Culture	CDHS, MDL
Alderpoint	03/26/86	Adults	NEG	39	39	0	Culture	CDHS, MDL
Alderpoint	11/05/86	Adults	NEG	25	25	0	Culture	CDHS, MDL
Benbow	05/07/86	Nymphs	NEG	1	1	0	Culture	CDHS, MDL
Benbow Lake SP	05/13/85	Females	NEG	1	1	0	Culture	CDHS, MDL
Benbow SRA	05/13/85	Adults	NEG	14	14	0	Culture	CDHS, MDL
Blocksburg	02/05/85	Adults	NEG	78	78	0	Culture	CDHS, MDL
Blocksburg	02/05/85	Adults	NEG	24	24	0	Culture	CDHS, MDL
Briceland	04/18/85	Adults	NEG	41	41	0	Culture	CDHS, MDL
Bridge Creek RNP	05/24/85	Females	NEG	1	1	0	Culture	CDHS, MDL
Bridge Creek RNP	05/24/85	Males	NEG	1	1	0	Culture	CDHS, MDL
Cuneo Creek CG HRSP	03/25/86	Adults	NEG	3	3	0	Culture	CDHS, MDL
Cuneo Creek HRSP	05/13/85	Females	NEG	1	1	0	Culture	CDHS, MDL
Ettersburg	03/25/86	Adults	POS	34	3	1	Culture	CDHS, MDL
Ferndale	10/28/86	Adults	NEG	2	2	0	Culture	CDHS, MDL
Garberville	03/26/86	Adults	NEG	35	4	0	Culture	CDHS, MDL
Harris	03/26/86	Adults	NEG	30	30	0	Culture	CDHS, MDL
Miranda	01/20/87	Adults	NEG	10	10	0	Culture	CDHS, MDL
Orick Redwood NP	10/27/85	Females	NEG	1	1	0	Culture	CDHS, MDL
Orick Redwood NP	10/30/85	Males	NEG	1	1	0	Culture	CDHS, MDL
Orick Redwood NP	11/11/85	Males	NEG	1	1	0	Culture	CDHS, MDL
Prairie Creek SP	03/12/86	Adults	NEG	3	3	0	Culture	CDHS, MDL
Redway	02/04/85	Adults	POS	51	5	1	Culture	CDHS, MDL
Redway	03/05/85	Females	NEG	4	1	0	Culture	CDHS, MDL
Redway	03/05/85	Males	NEG	3	3	0	Culture	CDHS, MDL
Redway	03/07/85	Females	NEG	6	1	0	Culture	CDHS, MDL
Redway	03/07/85	Males	NEG	7	7	0	Culture	CDHS, MDL
Redway	04/17/85	Adults	NEG	13	1	0	Culture	CDHS, MDL
Redway	04/17/85	Adults	NEG	64	64	0	Culture	CDHS, MDL
Redway	03/26/86	Adults	POS	39	39	1	Culture	CDHS, MDL
Redway	03/26/86	Adults	POS	10	1	1	Culture	CDHS, MDL
Richardson Grove SP	05/23/86	Adults	NEG	40	4	0	Culture	CDHS, MDL
Salmon Creek	02/04/85	Adults	NEG	20	20	0	Culture	CDHS, MDL
Salmon Creek	03/07/85	Adults	POS	29	3	2	Culture	CDHS, MDL
Salmon Creek	04/18/85	Adults	NEG	20	2	0	Culture	CDHS, MDL
				<u>671</u>	<u>454</u>	<u>6</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Inyo</u>								
Inyo NF, Lewis Canyon	02/09/99	Females	NEG	6	1	0	IFA	Rocky Mt Lab
Inyo NF, Lewis Canyon	02/09/99	Males	NEG	1	1	0	IFA	Rocky Mt Lab
Inyo NF, Lewis Canyon	01/30/01	Adults	NEG	1	0	0	Culture	UC Berkeley
Inyo NF, Lewis Canyon	04/13/01	Adults	NEG	13	13	0	Culture	UC Berkeley
Inyo NF, Sage Flat Road	04/12/01	Adults	NEG	1	1	0	Culture	UC Berkeley
				<u>22</u>	<u>16</u>	<u>0</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Kern</u>								
Fort Tejon SP	03/05/91	Adults	POS	50	5	1	Culture	CDHS, MDL
Fort Tejon SP	03/05/91	Adults	POS	50	5	1	Culture	CDHS, MDL
Loraine	03/06/91	Adults	NEG	50	5	0	Culture	CDHS, MDL
Loraine	03/06/91	Adults	NEG	50	5	0	Culture	CDHS, MDL
Stallion Springs	02/03/87	Adults	NEG	5	5	0	Culture	Rocky Mt Lab
				<u>205</u>	<u>25</u>	<u>2</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Lake</u>								
Clear Lake St Park	01/22/86	Adults	POS	25	3	1	Culture	CDHS, MDL
Highland Springs	04/08/87	Females	NEG	1	1	0	Culture	CDHS, MDL
Mendocino NF, Pillsbury Lake	04/13/87	Adults	NEG	29	29	0	Culture	CDHS, MDL
Mendocino NF, Pillsbury Lake	04/13/87	Females	NEG	22	22	0	Culture	CDHS, MDL
Mendocino NF, Pillsbury Lake	04/13/87	Males	NEG	20	20	0	Culture	CDHS, MDL
Upper Lake	04/13/87	Adults	POS	32	3	1	Culture	CDHS, MDL
				<u>129</u>	<u>78</u>	<u>2</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Los Angeles</u>								
Agoura, Ronald Reagan Ranch	02/09/00	Adults	NEG	101	10	0	DFA	Orange Co VCD
Angeles NF	03/23/90	Adults	NEG	52	5	0	Culture	CDHS, MDL
Angeles NF, Big Dalton Canyon	11/20/00	Adults	NEG	10	1	0	PCR	US Army
Angeles NF, Chantry Flat	03/18/91	Adults	NEG	102	10	0	Culture	CDHS, MDL
Angeles NF, Chantry Flat	03/18/91	Adults	NEG	41	4	0	Culture	CDHS, MDL
Angeles NF, Chantry Flat	04/11/01	Adults	NEG	152	15	0	PCR	US Army
Angeles NF, Chantry Flats	03/02/99	Adults	NEG	6	1	0	IFA	Orange Co VCD
Angeles NF, Claremont Hills	11/22/00	Adults	NEG	10	1	0	PCR	US Army
Angeles NF, Glendora Mt. Rd	11/20/00	Adults	NEG	28	3	0	PCR	US Army
Angeles NF, Mount Baldy	05/07/91	Adults	NEG	14	2	0	Culture	CDHS, MDL
Angeles NF, Mount Baldy	05/07/91	Adults	NEG	23	2	0	Culture	CDHS, MDL
Angeles NF, Oaks Picnic Site	11/20/00	Adults	NEG	5	1	0	PCR	US Army
Angeles NF, Palmer Canyon	11/20/00	Adults	NEG	6	1	0	PCR	US Army
Angeles NF, Rowher Flat OMU Area	03/22/01	Adults	NEG	24	3	0	PCR	US Army
Angeles NF, Santa Clarita	03/15/01	Adults	NEG	77	8	0	PCR	US Army
Angeles NF, Silverwood Lk St Pk	03/24/00	Adults	NEG	4	1	0	PCR	US Army
Angeles NF, South Fork Trail	04/24/01	Adults	NEG	188	19	0	PCR	US Army
Angeles NF, Switzer Picnic Area	03/23/00	Adults	NEG	7	2	0	PCR	US Army
Angeles NF, Switzer Picnic HWY 2	03/30/01	Adults	NEG	58	6	0	PCR	US Army
Griffith Park	11/30/88	Adults	NEG	33	3	0	Culture	CDHS, MDL
Griffith Park	11/30/88	Adults	NEG	123	12	0	Culture	CDHS, MDL
Griffith Park	11/30/88	Adults	NEG	13	2	0	Culture	CDHS, MDL
Griffith Park Drive Trail	03/06/01	Adults	NEG	51	5	0	PCR	US Army
Griffith Park, Los Angeles 5 Points	03/20/01	Adults	NEG	173	18	0	PCR	US Army
Los Angeles	01/21/88	Adults	NEG	13	1	0	Culture	CDHS, MDL
Los Angeles, O'melveney Park	02/08/01	Adults	NEG	121	12	0	PCR	US Army
Malibu	01/28/88	Adults	NEG	19	2	0	Culture	CDHS, MDL
Malibu Creek SP	03/20/89	Adults	NEG	12	1	0	Culture	CDHS, MDL
Malibu, Charmlee Park	01/28/00	Adults	POS	118	12	5	IFA	Placer Co HD
Malibu, Charmlee Park, Botany Trail	12/09/99	Females	NEG	28	3	0	IFA	Rocky Mt Lab
Malibu, Charmlee Park, Botany Trail	12/09/99	Males	NEG	38	4	0	IFA	Rocky Mt Lab
Malibu, Newton Canyon	04/21/99	Females	NEG	36	36	0	IFA	Rocky Mt Lab
Malibu, Newton Canyon	04/21/99	Males	NEG	43	43	0	IFA	Rocky Mt Lab
Malibu, Newton Canyon Trail	01/28/00	Adults	NEG	103	0	0	DFA	Orange Co VCD
Malibu, Upper Trancas Canyon, Main Trail	03/18/98	Adults	NEG	60	10	0	IFA	Rocky Mt Lab
Malibu, Upper Trancas Trail	11/18/99	Females	NEG	69	0	0	IFA	Rocky Mt Lab
Malibu, Upper Trancas Trail	11/18/99	Males	NEG	46	0	0	IFA	Rocky Mt Lab
Malibu, Upper Zuma Canyon	04/03/98	Females	NEG	30	3	0	IFA	Rocky Mt Lab

Malibu, Upper Zuma Canyon	04/03/98	Males	NEG	26	3	0	IFA	Rocky Mt Lab
Malibu, Zuma Canyon	02/19/98	Females	NEG	55	5	0	IFA	Rocky Mt Lab
Malibu, Zuma Canyon	02/19/98	Males	NEG	45	4	0	IFA	Rocky Mt Lab
Malibu, Zuma Canyon	11/10/99	Females	NEG	55	6	0	IFA	Rocky Mt Lab
Malibu, Zuma Canyon	11/10/99	Males	NEG	51	5	0	IFA	Rocky Mt Lab
Monrovia, Monrovia Canyon Park	03/27/01	Adults	NEG	72	7	0	PCR	US Army
Monrovia, Sawpit, nr Monrovia Canyon Pk	03/02/99	Adults	NEG	5	1	0	IFA	Orange Co VCD
Monrovia, Monrovia Canyon Park	03/02/99	Adults	NEG	32	3	0	IFA	Orange Co VCD
Pacific Palisades, Will Rogers St Park	01/05/00	Adults	POS	274	27	1	Culture	Rocky Mt Lab
Pacific Palisades, Will Rogers St Pk	01/05/00	Females	NEG	117	0	0	IFA	Rocky Mt Lab
Pacific Palisades, Will Rogers St Pk	01/05/00	Males	NEG	157	0	0	IFA	Rocky Mt Lab
Palos Verdes, Bluff Cove	03/10/00	Adults	POS	52	5	1	IFA	Placer Co HD
Santa Monica Mt. Thomas Guide 627/J7	02/19/99	Females	NEG	63	6	0	IFA	Rocky Mt Lab
Santa Monica Mt. Thomas Guide 627/J7	02/19/99	Males	NEG	45	5	0	IFA	Rocky Mt Lab
Schabarum Regional Park	02/16/90	Adults	NEG	50	5	0	Culture	CDHS, MDL
Schabarum Regional Park	03/30/00	Adults	NEG	224	0	0	DFA	Orange Co VCD
Solstice Canyon	03/19/91	Adults	NEG	101	10	0	Culture	CDHS, MDL
Solstice Canyon	03/19/91	Adults	NEG	51	5	0	Culture	CDHS, MDL
Solstice Canyon Park	03/20/89	Adults	NEG	4	1	0	Culture	CDHS, MDL
Spanish Canyon, near Monrovia Canyon PK	03/02/99	Adults	NEG	7	2	0	IFA	Orange Co VCD
Tapia Spur Trail, Thomas Guide 588/M7	02/26/99	Females	POS	28	3	1	IFA	Rocky Mt Lab
Tapia Spur Trail, Thomas Guide 588/M7	02/26/99	Males	POS	37	4	2	IFA	Rocky Mt Lab
Tarzana, Caballero Canyon Fire Road	04/04/01	Adults	NEG	33	3	0	PCR	US Army
Topanga Canyon St Park	02/25/98	Females	NEG	23	2	0	IFA	Rocky Mt Lab
Topanga Canyon St Park	02/25/98	Males	NEG	27	3	0	IFA	Rocky Mt Lab
Topanga Canyon St Park, TG 590/C6	03/06/98	Females	NEG	31	3	0	IFA	Rocky Mt Lab
Topanga Canyon St Park, TG 590/C6	03/06/98	Males	NEG	25	3	0	IFA	Rocky Mt Lab
Topanga Fire Road, TG 590/C6	02/12/99	Females	NEG	63	6	0	IFA	Rocky Mt Lab
Topanga Fire Road, TG 590/C6	02/12/99	Males	NEG	69	7	0	IFA	Rocky Mt Lab
Topanga St Park, TG 590/B5	04/29/98	Females	NEG	3	1	0	IFA	Rocky Mt Lab
Topanga St Park, TG 590/B5	04/29/98	Males	NEG	4	1	0	IFA	Rocky Mt Lab
Whittier	02/02/88	Adults	NEG	12	2	0	Culture	CDHS, MDL

3878 400 10

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Madera</u>								
Cascade Woods	12/14/89	Adults	NEG	10	1	0	Culture	CDHS, MDL
Mammoth Pool	03/18/87	Adults	NEG	1	1	0	Culture	CDHS, MDL
Northfork	12/14/89	Adults	NEG	10	1	0	Culture	CDHS, MDL
Oakhurst	03/03/87	Adults	NEG	3	1	0	Culture	Rocky Mt Lab
Sierra NF, Bass Lake	03/02/87	Adults	NEG	20	1	0	Culture	Rocky Mt Lab
Sierra NF, Bass Lake	11/21/89	Adults	NEG	30	3	0	Culture	CDHS, MDL
Sierra NF, Bass Lake	12/14/89	Adults	NEG	20	2	0	Culture	CDHS, MDL
Sierra NF, Bass Lake	01/03/91	Adults	POS	41	4	1	Culture	CDHS, MDL
Sierra NF, Bass Lake	01/25/91	Adults	NEG	61	6	0	Culture	CDHS, MDL

196 20 1

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Mariposa</u>								
El Portal, Water Storage Tank Rd	03/09/99	Females	NEG	31	3	0	IFA	Rocky Mt Lab
El Portal, Water Storage Tank Rd	03/09/99	Males	NEG	44	4	0	IFA	Rocky Mt Lab
Mariposa	11/30/89	Adults	NEG	18	2	0	Culture	CDHS, MDL
Mariposa	12/04/89	Adults	NEG	10	1	0	Culture	CDHS, MDL
Mariposa	01/09/90	Adults	POS	20	2	1	Culture	CDHS, MDL
Miami Mountain	12/12/89	Adults	NEG	10	1	0	Culture	CDHS, MDL
Miami Mountain	01/09/90	Adults	POS	30	3	3	Culture	CDHS, MDL
Timber Lodge	12/12/89	Adults	NEG	10	1	0	Culture	CDHS, MDL
Yosemite NP, Wawona Campground	07/07/92	Adults	POS	30	3	2	IFA	Rocky Mt Lab
Yosemite NP, Wawona Campground	03/08/95	Adults	POS	225	23	4	IFA	Rocky Mt Lab

428 43 10

LOCATION	DATE	SPECIME	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Mendocino</u>								
Brooktrails	01/22/86	Adults	NEG	29	29	0	Culture	CDHS, MDL
Covelo	11/04/86	Adults	NEG	27	27	0	Culture	CDHS, MDL
Cummings	01/20/87	Adults	NEG	18	18	0	Culture	CDHS, MDL
Hendy Woods SP	12/09/86	Adults	NEG	11	11	0	Culture	CDHS, MDL
Lake Mendocino	01/08/86	Adults	POS	53	5	1	Culture	CDHS, MDL
Lake Mendocino	03/14/89	Adults	POS	129	13	1	Culture	CDHS, MDL
Laytonville	03/25/86	Adults	POS	27	3	1	Culture	CDHS, MDL
Laytonville	10/27/86	Adults	NEG	6	6	0	Culture	CDHS, MDL
MacKerricher SP	01/23/86	Adults	NEG	9	9	0	Culture	CDHS, MDL
Manchester	04/03/85	Adults	NEG	8	8	0	Culture	CDHS, MDL
Manchester SB	01/24/85	Adults	NEG	28	28	0	Culture	CDHS, MDL
Piercy	03/08/85	Females	NEG	5	5	0	Culture	CDHS, MDL
Piercy	03/08/85	Males	NEG	6	6	0	Culture	CDHS, MDL
Piercy	05/13/85	Adults	NEG	17	17	0	Culture	CDHS, MDL
Piercy	10/27/86	Adults	NEG	8	8	0	Culture	CDHS, MDL
Potter Valley	07/01/88	Nymphs	POS	19	2	1	Culture	CDHS, MDL
Potter Valley	07/11/88	Nymphs	POS	79	8	1	Culture	CDHS, MDL
Potter Valley	03/29/89	Adults	NEG	210	21	0	IFA	UC Berkeley
Potter Valley	03/18/92	Nymphs	POS	95	95	10	Culture	UC Berkeley
Potter Valley	04/20/92	Nymphs	POS	129	129	23	Culture	UC Berkeley
Potter Valley	05/04/92	Adults	POS	110	11	4	Culture	UC Berkeley
Whale Gulch	03/08/85	Adults	POS	8	1	1	Culture	CDHS, MDL
Whitethorn	03/08/85	Females	NEG	8	1	0	Culture	CDHS, MDL
Whitethorn	03/08/85	Males	NEG	7	7	0	Culture	CDHS, MDL
Willits	01/23/85	Adults	POS	33	3	1	Culture	CDHS, MDL
Willits	11/05/86	Adults	POS	25	3	1	Culture	CDHS, MDL
				<u>1104</u>	<u>474</u>	<u>45</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Monterey</u>								
Andrew Molera SP	01/25/90	Adults	NEG	50	5	0	Culture	CDHS, MDL
Carmel Valley	03/19/86	Adults	NEG	6	6	0	Culture	CDHS, MDL
Jacks Peak RP	11/29/89	Adults	NEG	50	5	0	Culture	CDHS, MDL
Los Padres NF, Arroyo Seco CG	03/23/00	Adults	NEG	67	14	0	PCR	US Army
Los Padres NF, Arroyo Seco CG	03/23/00	Nymphs	NEG	1	1	0	PCR	US Army
Los Padres NF, Arroyo Seco CG	01/04/01	Adults	NEG	157	17	0	PCR	US Army
Los Padres NF, Arroyo Seco Trail	05/10/00	Adults	NEG	14	4	0	PCR	US Army
				<u>345</u>	<u>52</u>	<u>0</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Napa</u>								
Angwin	01/15/87	Adults	NEG	22	22	0	Culture	CDHS, MDL
Boethe SP	12/11/85	Adults	NEG	54	54	0	Culture	CDHS, MDL
Lake Berryessa	01/15/87	Adults	NEG	20	20	0	Culture	CDHS, MDL
Oakville	01/08/85	Adults	POS	113	12	2	Culture	CDHS, MDL
				<u>209</u>	<u>108</u>	<u>2</u>		

LOCATION	DATE	SPECIME	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Nevada</u>								
Bridgeport	03/17/88	Adults	NEG	80	8	0	Culture	CDHS, MDL
Grass Valley	03/17/88	Adults	POS	39	4	1	Culture	CDHS, MDL
Nevada City	03/03/88	Adults	NEG	47	5	0	Culture	CDHS, MDL
Nevada City	03/07/88	Adults	NEG	40	4	0	Culture	CDHS, MDL
Nevada City	03/18/88	Adults	POS	57	6	2	Culture	CDHS, MDL
South Yuba River SP, Independence Trail	05/09/00	Adults	POS	258	30	2	IFA	Placer Co HD
South Yuba River SP, Independence Trail	05/09/00	Nymphs	NEG	8	1	0	IFA	Placer Co HD
South Yuba River SP, Pleasant Valley Rd	05/09/00	Adults	POS	41	4	1	IFA	Placer Co HD
				<u>570</u>	<u>62</u>	<u>6</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Orange</u>								
Aliso-Wood Canyon Park	02/06/91	Adults	NEG	50	5	0	Culture	CDHS, MDL
Caspers RP	02/18/87	Adults	NEG	12	12	0	Culture	CDHS, MDL
Caspers RP	02/05/91	Adults	NEG	52	5	0	Culture	CDHS, MDL
Crystal Cove SP	02/17/87	Adults	NEG	28	28	0	Culture	CDHS, MDL
Crystal Cove SP	11/01/89	Adults	NEG	38	4	0	Culture	CDHS, MDL
Crystal Cove SP	02/04/91	Adults	NEG	52	5	0	Culture	CDHS, MDL
San Clemente	02/05/91	Adults	NEG	50	5	0	Culture	CDHS, MDL
Silverado Canyon	04/10/90	Adults	NEG	81	8	0	Culture	CDHS, MDL
				<u>363</u>	<u>72</u>	<u>0</u>		
LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Placer</u>								
Auburn	04/06/89	Adults	POS	54	6	1	Culture	CDHS, MDL
Auburn SRA	04/06/89	Adults	POS	108	11	3	Culture	CDHS, MDL
Foresthill	04/19/86	Adults	NEG	15	15	0	Culture	CDHS, MDL
Foresthill	02/03/87	Adults	NEG	12	12	0	Culture	CDHS, MDL
				<u>189</u>	<u>44</u>	<u>4</u>		
LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Plumas</u>								
Plumas NF, Chambers Creek Trail	03/18/98	Females	NEG	24	24	0	IFA	Butte MVCD
Plumas NF, Chambers Creek Trail	03/18/98	Males	NEG	35	35	0	IFA	Butte MVCD
Plumas NF, Rd 205 at Hwy 70	02/18/98	Females	NEG	19	0	0	IFA	Butte MVCD
Plumas NF, Rd 205 at Hwy 70	02/18/98	Males	NEG	36	0	0	IFA	Butte MVCD
Plumas NF, Tobin, 1 mi N, Hwy 70	03/16/99	Adults	POS	40	4	1	IFA	Rocky Mt Lab
				<u>154</u>	<u>63</u>	<u>1</u>		
LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Riverside</u>								
Cleveland NF, Ortega Mtns	03/14/01	Adults	NEG	41	4	0	PCR	US Army
Cleveland NF, Ortega Mtns	03/28/01	Adults	NEG	18	2	0	PCR	US Army
Cleveland NF, Ortega Mtns	04/11/01	Adults	NEG	24	2	0	PCR	US Army
Cleveland NF, Ortega Mtns.	11/05/00	Adults	NEG	13	2	0	PCR	US Army
Cleveland NF, Ortega Mtns.	12/13/00	Adults	NEG	8	1	0	PCR	US Army
Cleveland NF, Ortega Mtns.	12/27/00	Adults	NEG	2	1	0	PCR	US Army
Cleveland NF, Ortega Mtns.	01/10/01	Adults	NEG	16	2	0	PCR	US Army
Cleveland NF, Ortega Mtns.	01/31/01	Adults	NEG	5	1	0	PCR	US Army
Cleveland NF, Ortega Mtns.	02/27/01	Adults	NEG	1	1	0	PCR	US Army
Cleveland NF, Santa Rosa Plateau	11/05/00	Adults	NEG	15	2	0	PCR	US Army
Cleveland NF, Santa Rosa Plateau	12/05/00	Adults	NEG	18	2	0	PCR	US Army
Cleveland NF, Santa Rosa Plateau	12/19/00	Adults	NEG	8	1	0	PCR	US Army
Cleveland NF, Santa Rosa Plateau	01/09/01	Adults	NEG	19	2	0	PCR	US Army
Cleveland NF, Santa Rosa Plateau	01/09/01	Adults	NEG	8	1	0	PCR	US Army
Cleveland NF, Santa Rosa Plateau	02/06/01	Adults	NEG	45	5	0	PCR	US Army
Cleveland NF, Santa Rosa Plateau	02/21/01	Adults	NEG	36	4	0	PCR	US Army
Cleveland NF, Santa Rosa Plateau	03/05/01	Adults	NEG	6	1	0	PCR	US Army
Cleveland NF, Santa Rosa Plateau	03/20/01	Adults	NEG	11	1	0	PCR	US Army
Cleveland NF, Santa Rosa Plateau	04/03/01	Adults	NEG	9	1	0	PCR	US Army
Cleveland NF, Santa Rosa Plateau	04/17/01	Adults	NEG	9	1	0	PCR	US Army
Lawler COP	05/06/91	Adults	NEG	12	1	0	Culture	CDHS, MDL
Mountain Center	03/18/87	Adults	NEG	13	13	0	Culture	CDHS, MDL
San Bernardino NF, Cranston Station	11/05/00	Adults	NEG	33	3	0	PCR	US Army
San Bernardino NF, Cranston Station	12/13/00	Adults	NEG	14	2	0	PCR	US Army
San Bernardino NF, Cranston Station	12/27/00	Adults	NEG	14	2	0	PCR	US Army
San Bernardino NF, Cranston Station	01/10/01	Adults	NEG	13	1	0	PCR	US Army
San Bernardino NF, Cranston Station	01/13/01	Adults	NEG	6	1	0	PCR	US Army
San Bernardino NF, Cranston Station	02/14/01	Adults	NEG	1	1	0	PCR	US Army
San Bernardino NF, Cranston Station	03/14/01	Adults	NEG	5	1	0	PCR	US Army
San Bernardino NF, Cranston Station	03/28/01	Adults	NEG	7	1	0	PCR	US Army

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Riverside</u>								
San Bernardino NF, Cranston Station	04/11/01	Adults	NEG	26	3	0	PCR	US Army
San Bernardino NF, Cranston Station	04/25/01	Adults	NEG	7	1	0	PCR	US Army
San Bernardino NF, Gardner Valley	11/05/00	Adults	NEG	68	7	0	PCR	US Army
San Bernardino NF, Gardner Valley	12/06/00	Adults	NEG	51	5	0	PCR	US Army
San Bernardino NF, Gardner Valley	12/20/00	Adults	NEG	21	2	0	PCR	US Army
San Bernardino NF, Gardner Valley	01/03/01	Adults	NEG	11	1	0	PCR	US Army
San Bernardino NF, Gardner Valley	02/09/01	Adults	NEG	3	1	0	PCR	US Army
San Bernardino NF, Gardner Valley	02/21/01	Adults	NEG	77	8	0	PCR	US Army
San Bernardino NF, Gardner Valley	03/07/01	Adults	NEG	7	1	0	PCR	US Army
San Bernardino NF, Gardner Valley	03/21/01	Adults	NEG	35	4	0	PCR	US Army
San Bernardino NF, Gardner Valley	04/04/01	Adults	NEG	46	5	0	PCR	US Army
San Bernardino NF, Gardner Valley	04/18/01	Adults	NEG	15	2	0	PCR	US Army
San Bernardino NF, Santa Rosa Mtns.	01/15/98	Females	NEG	38	4	0	IFA	Rocky Mt Lab
San Bernardino NF, Santa Rosa Mtns.	01/15/98	Males	NEG	46	5	0	IFA	Rocky Mt Lab
San Bernardino NF, Santa Rosa Mtns.	01/30/98	Females	NEG	8	1	0	IFA	Rocky Mt lab
San Bernardino NF, Santa Rosa Mtns.	01/30/98	Males	NEG	11	1	0	IFA	Rocky Mt lab
San Bernardino NF, Santa Rosa Mtns.	03/16/98	Females	NEG	35	4	0	IFA	Rocky Mt Lab
San Bernardino NF, Santa Rosa Mtns.	03/16/98	Males	NEG	29	3	0	IFA	Rocky Mt Lab
San Bernardino NF, Silent Valley	03/17/87	Females	NEG	4	4	0	Culture	CDHS, MDL
San Bernardino NF, Silent Valley	03/17/87	Males	NEG	4	4	0	Culture	CDHS, MDL
San Bernardino NF, Silent Valley	11/05/00	Adults	NEG	45	5	0	PCR	US Army
San Bernardino NF, Silent Valley	12/06/00	Adults	NEG	32	3	0	PCR	US Army
San Bernardino NF, Silent Valley	12/20/00	Adults	NEG	11	1	0	PCR	US Army
San Bernardino NF, Silent Valley	01/03/01	Adults	NEG	7	1	0	PCR	US Army
San Bernardino NF, Silent Valley	01/17/01	Adults	NEG	10	1	0	PCR	US Army
San Bernardino NF, Silent Valley	02/09/01	Adults	NEG	2	1	0	PCR	US Army
San Bernardino NF, Silent Valley	02/21/01	Adults	NEG	39	4	0	PCR	US Army
San Bernardino NF, Silent Valley	03/09/01	Adults	NEG	46	5	0	PCR	US Army
San Bernardino NF, Silent Valley	04/04/01	Adults	NEG	42	4	0	PCR	US Army
San Bernardino NF, Silent Valley	04/18/01	Adults	NEG	4	1	0	PCR	US Army
San Bernardino NF, Thomas Mountain	03/18/87	Adults	NEG	23	23	0	Culture	CDHS, MDL
San Bernardino NF, Thomas Mountain	05/06/91	Adults	NEG	68	7	0	Culture	CDHS, MDL
San Bernardino NF, Thomas Mountain	05/06/91	Adults	NEG	33	3	0	Culture	CDHS, MDL
San Bernardino NF, Thomas Mountain	01/15/98	Females	NEG	23	2	0	IFA	Rocky Mt Lab
San Bernardino NF, Thomas Mountain	01/15/98	Males	NEG	20	2	0	IFA	Rocky Mt Lab
San Bernardino NF, Thomas Mountain	01/30/98	Adults	NEG	4	1	0	IFA	Rocky Mt Lab
				<u>1381</u>	<u>193</u>	<u>0</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Sacramento</u>								
Fair Oaks	03/28/90	Adults	NEG	20	2	0	Culture	CDHS, MDL
Folsom	03/29/90	Adults	POS	36	3	1	Culture	CDHS, MDL
Folsom	03/30/90	Adults	POS	40	4	4	Culture	CDHS, MDL
Folsom	04/04/90	Adults	POS	25	2	1	Culture	CDHS, MDL
Nimbus Dam	01/24/89	Adults	NEG	110	11	0	Culture	CDHS, MDL
				<u>231</u>	<u>22</u>	<u>6</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>San Benito</u>								
Beaver Dam Fire Station	02/08/91	Adults	POS	24	3	1	Culture	CDHS, MDL
Freemont Peak SP	11/28/89	Adults	NEG	50	5	0	Culture	CDHS, MDL
Hollister Hills SP	01/15/86	Adults	NEG	56	56	0	Culture	CDHS, MDL
Hollister Hills SP	01/20/87	Adults	NEG	29	29	0	Culture	CDHS, MDL
Pinnacles	02/07/91	Adults	NEG	48	5	0	Culture	CDHS, MDL
Pinnacles NM	01/19/87	Adults	NEG	4	4	0	Culture	CDHS, MDL
Pinnacles NM	01/21/87	Adults	NEG	7	7	0	Culture	CDHS, MDL
San Benito River, Coalinga Rd	01/24/90	Adults	NEG	40	4	0	Culture	CDHS, MDL
				<u>258</u>	<u>113</u>	<u>1</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>San Bernardino</u>								
Cucamonga	03/20/91	Adults	POS	21	2	2	Culture	CDHS, MDL
Devore	03/16/87	Adults	NEG	16	16	0	Culture	CDHS, MDL
Mill Creek Canyon	03/17/87	Adults	NEG	9	9	0	Culture	CDHS, MDL
San Bernardino NF, Silverwood Lake Rec	03/24/00	Adults	NEG	4	1	0	PCR	US Army
Silver Lake	03/16/87	Adults	NEG	11	11	0	Culture	CDHS, MDL
Silverwood Lake St Pk, Recreation Area	04/16/01	Adults	NEG	5	1	0	IFA	Rocky Mt Lab
				<u>66</u>	<u>40</u>	<u>2</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>San Diego</u>								
Cuyamaca Rancho SP	04/04/91	Adults	NEG	28	3	0	Culture	CDHS, MDL
Cuyamaca Rancho SP	04/04/91	Adults	NEG	31	3	0	Culture	CDHS, MDL
Cuyamaca Rancho SP	04/08/91	Adults	NEG	29	3	0	Culture	CDHS, MDL
Cuyamaca Rancho SP	04/08/91	Adults	NEG	20	2	0	Culture	CDHS, MDL
De Luz	02/25/87	Females	NEG	1	1	0	Culture	CDHS, MDL
De Luz	03/02/90	Adults	NEG	100	10	0	Culture	CDHS, MDL
Lake Morena COP	04/08/91	Adults	NEG	46	4	0	Culture	CDHS, MDL
Lake Morena COP	04/09/91	Adults	NEG	53	6	0	Culture	CDHS, MDL
Lake Wohlford, TB 111013 & 111A2	01/21/98	Females	NEG	50	5	0	IFA	Rocky Mt Lab
Lake Wohlford, TB 111013 & 111A2	01/21/98	Males	NEG	40	4	0	IFA	Rocky Mt Lab
Rancho Penasquitos Co Pk	01/22/98	Females	NEG	8	1	0	IFA	Rocky Mt lab
				<u>406</u>	<u>42</u>	<u>0</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>San Luis Obispo</u>								
Atascadero	02/22/90	Adults	NEG	18	18	0	IFA	County HD
Cambria	03/22/88	Adults	NEG	70	7	0	Culture	CDHS, MDL
Cambria	11/29/89	Adults	NEG	30	3	0	Culture	CDHS, MDL
El Chorro Environmental Sch.	10/26/89	Adults	NEG	75	8	0	Culture	CDHS, MDL
El Chorro Environmental Sch.	11/30/89	Females	NEG	15	15	0	IFA	County HD
El Chorro Environmental Sch.	11/30/89	Males	NEG	15	15	0	IFA	County HD
El Chorro Environmental Sch.	02/22/90	Adults	NEG	40	40	0	IFA	County HD
El Chorro Environmental Sch.	05/29/90	Adults	NEG	10	1	0	Culture	CDHS, MDL
Lopez Lake	02/07/89	Adults	NEG	95	10	0	Culture	CDHS, MDL
Lopez Lake	12/14/90	Adults	NEG	70	7	0	Culture	CDHS, MDL
Los Osos	03/22/88	Adults	NEG	72	7	0	Culture	CDHS, MDL
Los Padres NF, Cerro Alto Campground	11/27/90	Adults	NEG	50	5	0	Culture	CDHS, MDL
Los Padres NF, Cerro Alto Campground	03/30/00	Adults	NEG	130	27	0	PCR	US Army
Los Padres NF, Cerro Alto Campground	02/05/01	Adults	NEG	100	10	0	PCR	US Army
Montana de Oro SP	11/26/90	Adults	NEG	50	5	0	Culture	CDHS, MDL
Pozo	11/25/90	Adults	NEG	53	5	0	Culture	CDHS, MDL
Santa Margarita Lake	02/07/89	Adults	NEG	51	5	0	Culture	CDHS, MDL
				<u>944</u>	<u>188</u>	<u>0</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>San Mateo</u>								
Big Basin SP	02/19/87	Adults	NEG	27	27	0	Culture	CDHS, MDL
La Honda	03/23/88	Adults	POS	133	13	3	Culture	CDHS, MDL
				<u>160</u>	<u>40</u>	<u>3</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Santa Barbara</u>								
Gaviota SP	12/13/89	Adults	NEG	100	10	0	Culture	CDHS, MDL
Gaviota SP	11/28/90	Adults	NEG	50	5	0	Culture	CDHS, MDL
Hollister Ranch	05/30/90	Adults	NEG	5	1	0	Culture	CDHS, MDL
Hollister Ranch, Allegria Rd	02/19/87	Adults	NEG	30	30	0	Culture	CDHS, MDL
Lake Cachuma Co Park, Camp Whittier	03/12/98	Females	NEG	60	6	0	IFA	Rocky Mt Lab
Lake Cachuma Co Park, Camp Whittier	03/12/98	Males	NEG	65	6	0	IFA	Rocky Mt Lab
Los Padres NF, Freemont CG	12/18/89	Adults	NEG	40	40	0	IFA	SBlab
Los Padres NF, Freemont CG	01/15/90	Adults	NEG	50	0	0	IFA	SBlab
Monticeto	02/19/87	Adults	NEG	30	30	0	Culture	CDHS, MDL
Nojoqui Falls COP	11/01/89	Adults	NEG	7	7	0	IFA	KNlab
Nojoqui Falls COP	11/08/89	Adults	NEG	10	10	0	IFA	SBlab
Nojoqui Falls COP	12/19/89	Adults	NEG	60	60	0	IFA	SBlab
Nojoqui Falls COP	01/14/90	Adults	NEG	30	0	0	IFA	SBlab
Nojoqui Falls COP	05/10/90	Adults	NEG	10	1	0	Culture	CDHS, MDL
Nojoqui Falls COP	11/14/90	Adults	NEG	22	2	0	Culture	CDHS, MDL
Nojoqui Falls COP	11/28/90	Adults	NEG	30	3	0	Culture	CDHS, MDL
Rancho Alegre	11/27/90	Adults	NEG	100	10	0	Culture	CDHS, MDL
S. B. Outdoor School	05/10/90	Nymphs	NEG	16	2	0	Culture	CDHS, MDL
S. B. Outdoor School	05/24/90	Nymphs	NEG	23	2	0	Culture	CDHS, MDL
S. B. Outdoor School	06/05/90	Nymphs	NEG	13	1	0	Culture	CDHS, MDL
Santa Barbara	02/19/87	Adults	NEG	30	30	0	Culture	CDHS, MDL
Tucker Grove Park	11/14/89	Adults	NEG	6	6	0	IFA	SBlab
Vandenberg Air Force Base	02/08/95	Females	POS	12	1	1	PCR	US Army
Vandenberg Air Force Base	02/09/95	Larvae	POS	1	1	1	PCR	US Army
Vandenberg Air Force Base	02/10/95	Adults	NEG	32	6	0	PCR	US Army
Vandenberg Air Force Base	02/10/95	Larvae	NEG	94	19	0	PCR	US Army
Vandenberg Air Force Base	02/10/95	Nymphs	NEG	23	5	0	PCR	US Army
Vandenberg Air Force Base, DOD	04/26/88	Adults	NEG	35	4	0	Culture	CDHS, MDL
				<u>984</u>	<u>298</u>	<u>2</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Santa Clara</u>								
Mt Madonna COP	01/16/86	Adults	POS	54	5	1	Culture	CDHS, MDL
				<u>54</u>	<u>5</u>	<u>1</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Santa Cruz</u>								
Bonny Doon	05/19/89	Adults	NEG	3	1	0	Culture	CDHS, MDL
Bonny Doon	05/19/89	Nymphs	NEG	2	1	0	Culture	CDHS, MDL
Camp Loma, 4-H	05/31/89	Adults	POS	46	5	1	Culture	CDHS, MDL
Camp Loma, 4-H	05/31/89	Nymphs	NEG	1	1	0	Culture	CDHS, MDL
Corralitos Lagoon	05/31/89	Adults	NEG	18	2	0	Culture	CDHS, MDL
Corralitos Lagoon	05/31/89	Nymphs	NEG	34	3	0	Culture	CDHS, MDL
Henry Cowell SP	02/19/87	Adults	NEG	39	39	0	Culture	CDHS, MDL
Laurel	05/31/89	Adults	NEG	7	1	0	Culture	CDHS, MDL
Laurel	05/31/89	Nymphs	NEG	3	1	0	Culture	CDHS, MDL
Nisene Marks, SP	02/18/87	Adults	NEG	6	6	0	Culture	CDHS, MDL
Seacliff	04/21/89	Adults	NEG	11	1	0	Culture	CDHS, MDL
				<u>170</u>	<u>61</u>	<u>1</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Shasta</u>								
Bear Creek Bridge	04/06/88	Adults	POS	14	2	1	Culture	CDHS, MDL
Bella Vista	04/06/88	Adults	NEG	9	1	0	Culture	CDHS, MDL
Old Shasta	03/22/88	Adults	NEG	8	1	0	Culture	CDHS, MDL
Shasta NF, Fenders Flat, Fenders Ferry B	03/14/01	Adults	NEG	30	3	0	PCR	US Army
Shasta NF, Pollard Gulch Rec Area	04/27/99	Adults	POS	73	7	1	IFA	Butte MVCD
Shasta NF, Potem Falls, Potem Creek	03/14/01	Adults	NEG	40	4	0	PCR	US Army
Shasta NF, Shasta Lake, Dekkas Rock	12/27/01	Adults	POS	33	33	1	IFA	Washoe Co EH
Shasta NF, Shasta Lake, Hirtz Bay CG	12/11/01	Adults	NEG	29	29	0	IFA	Washoe Co EH
Shasta NF, Shasta Lake, McCloud Bridge	01/03/02	Adults	NEG	20	20	0	IFA	Washoe Co EH
Shasta NF, Vollmers	03/23/88	Adults	NEG	16	2	0	Culture	CDHS, MDL
Whiskeytown Lake	10/31/86	Adults	NEG	18	18	0	Culture	CDHS, MDL
Whiskeytown NRA	03/25/88	Adults	NEG	16	2	0	Culture	CDHS, MDL
				<u>306</u>	<u>122</u>	<u>3</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Sierra</u>								
Tahoe NF, Indian Valley CG	03/19/98	Females	NEG	6	0	0	IFA	Butte MVCD
Tahoe NF, Indian Valley CG	03/19/98	Males	NEG	9	0	0	IFA	Butte MVCD
Tahoe NF, Ramshorn CG	03/19/98	Females	POS	38	4	1	IFA	Butte MVCD
Tahoe NF, Ramshorn CG	03/19/98	Males	POS	40	4	3	IFA	Butte MVCD
				<u>93</u>	<u>8</u>	<u>4</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Siskiyou</u>								
Klamath NF, Greenhorn Creek	04/12/91	Adults	NEG	20	2	0	Culture	CDHS, MDL
Klamath NF, Indian Scotty CG	04/12/91	Adults	NEG	32	3	0	Culture	CDHS, MDL
Klamath NF, O'Neil Creek CG	05/08/91	Adults	NEG	11	1	0	Culture	CDHS, MDL
Klamath NF, Seiad Valley	05/08/91	Adults	POS	51	5	1	Culture	CDHS, MDL
				<u>114</u>	<u>11</u>	<u>1</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Solano</u>								
Fairfield RP	12/09/91	Adults	NEG	70	70	0	IFA	NY Med College
Mix Canyon	05/13/91	Adults	NEG	51	5	0	Culture	CDHS, MDL
				<u>121</u>	<u>75</u>	<u>0</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Sonoma</u>								
Annadel SP	01/03/85	Adults	POS	103	10	1	Culture	CDHS, MDL
Annadel SP	12/05/85	Adults	POS	60	6	2	Culture	CDHS, MDL
Annadel SP	12/06/85	Adults	NEG	31	3	0	Culture	CDHS, MDL
Annadel SP	11/06/87	Adults	POS	99	10	1	Culture	CDHS, MDL
Armstrong Woods SP	12/03/85	Adults	POS	44	4	2	Culture	CDHS, MDL
Armstrong Woods SP	11/11/89	Adults	NEG	113	11	0	Culture	CDHS, MDL
Howarth CIP	12/05/85	Adults	NEG	14	14	0	Culture	CDHS, MDL
Jack London SP	01/03/86	Adults	NEG	45	45	0	Culture	CDHS, MDL
Mark West Springs	03/12/85	Adults	POS	37	4	2	Culture	CDHS, MDL
Santa Rosa	03/12/85	Adults	POS	22	2	1	Culture	CDHS, MDL
Santa Rosa	01/06/87	Adults	NEG	35	35	0	Culture	CDHS, MDL
Sea Ranch	01/23/86	Adults	NEG	3	1	0	Culture	CDHS, MDL
Sonoma Developmen Center	01/18/01	Adults	NEG	111	12	0	PCR	US Army
Sonoma Development Center	03/14/00	Adults	NEG	28	7	0	PCR	US Army
Sonoma Development Center	03/14/00	Nymphs	NEG	4	1	0	PCR	US Army
Spring Lake RP	12/09/85	Adults	NEG	36	36	0	Culture	CDHS, MDL
				<u>785</u>	<u>201</u>	<u>9</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Tehama</u>								
Battle Creek	03/12/90	Adults	NEG	28	3	0	Culture	CDHS, MDL
Battle Creek	04/02/90	Adults	NEG	19	2	0	Culture	CDHS, MDL
Judd Creek	04/02/90	Adults	NEG	34	3	0	Culture	CDHS, MDL
Lassen NF, Black Rock C G	04/30/96	Adults	POS	39	4	1	IFA	Butte MVCD
Manton	03/01/91	Adults	NEG	50	5	0	Culture	CDHS, MDL
Maple Creek, near Saddle Camp	01/19/94	Adults	POS	10	1	1	Culture	Rocky Mt Lab
Paynes Creek	04/03/90	Adults	NEG	10	1	0	Culture	CDHS, MDL
Trinity NF, Pattymocus Butte	05/16/91	Adults	NEG	53	5	0	Culture	CDHS, MDL
				<u>243</u>	<u>24</u>	<u>2</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Trinity</u>								
Camp Trail	03/31/87	Adults	NEG	44	44	0	Culture	CDHS, MDL
Carrville	04/14/89	Adults	NEG	18	2	0	Culture	CDHS, MDL
Douglas City	04/14/89	Adults	NEG	29	3	0	Culture	CDHS, MDL
Goose Ranch Road	04/05/89	Adults	NEG	18	2	0	Culture	CDHS, MDL
Goose Ranch Road	04/05/89	Adults	NEG	7	1	0	Culture	CDHS, MDL
Helena	03/23/87	Adults	NEG	10	10	0	Culture	CDHS, MDL
Little Browns Creek	04/14/89	Adults	NEG	12	1	0	Culture	CDHS, MDL
Old Helena	04/05/89	Adults	NEG	33	4	0	Culture	CDHS, MDL
Price Creek	04/05/89	Adults	POS	25	3	1	Culture	CDHS, MDL
Trinity NF, Stuart Fork, Trail Bridge	05/13/99	Adults	NEG	30	3	0	IFA	Rocky Mt Lab
Trinity NF, Weaverville, 6 mi n, 2 mi e	05/13/99	Adults	NEG	25		0	IFA	Rocky Mt Lab
Weaverville	04/06/89	Adults	POS	42	4	1	Culture	CDHS, MDL
				<u>293</u>	<u>77</u>	<u>2</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Tulare</u>								
Badger	12/17/86	Adults	NEG	1	1	0	Culture	CDHS, MDL
Badger	12/17/86	Adults	NEG	11	11	0	Culture	CDHS, MDL
Clough Cave	12/17/86	Adults	NEG	30	30	0	Culture	CDHS, MDL
Paradise Recreation Site, N Kaweah	11/15/00	Adults	NEG	7	1	0	PCR	US Army
Sequoia NF	07/06/88	Nymphs	NEG	3	1	0	Culture	CDHS, MDL
Sequoia NF, Bear Creek Trail	04/05/00	Adults	NEG	1	1	0	PCR	US Army
Sequoia NF, Lake Kaweah	03/15/00	Adults	NEG	10	2	0	PCR	US Army
Sequoia NF, Tule River	04/05/00	Adults	NEG	1	1	0	PCR	US Army
Sequoia NF, Tule River	04/05/00	Nymphs	NEG	2	1	0	PCR	US Army
Sequoia NP, Ash Mountain	02/18/87	Adults	POS	8	1	1	Culture	Rocky Mt Lab
Sequoia NP, Ash Mountain	02/18/87	Adults	POS	20	2	1	Culture	Rocky Mt Lab
Sequoia NP, Hospital Rock CG	11/29/00	Adults	NEG	79	8	0	PCR	US Army
Sequoia NP, Potwisha CG	11/29/00	Adults	POS	42	4	1	PCR	US Army
Sequoia NP, SE N. Fork Kaweah River	11/15/00	Adults	NEG	35	7	0	PCR	US Army
Three Rivers	12/17/86	Adults	NEG	38	38	0	Culture	CDHS, MDL
				<u>288</u>	<u>109</u>	<u>3</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Tuolumne</u>								
Columbia	02/28/89	Adults	POS	56	6	1	Culture	CDHS, MDL
Columbia	03/22/89	Adults	POS	54	5	1	Culture	CDHS, MDL
Yankee Hill	04/10/87	Adults	NEG	20	20	0	Culture	CDHS, MDL
				<u>130</u>	<u>31</u>	<u>2</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Ventura</u>								
Arroyo Verde Park	12/08/88	Adults	NEG	29	3	0	Culture	CDHS, MDL
Arroyo Verde Park	01/04/90	Adults	NEG	17	2	0	Culture	CDHS, MDL
Arroyo Verde Park	01/19/90	Adults	NEG	50	5	0	Culture	CDHS, MDL
Arroyo Verde Park	01/07/91	Adults	NEG	100	10	0	Culture	CDHS, MDL
Los Padres NF, Cross Falls CG	12/13/86	Adults	NEG	12	12	0	Culture	CDHS, MDL
Point Mugu SP	01/07/91	Adults	NEG	50	5	0	Culture	CDHS, MDL
Santa Paula Creek	01/21/87	Adults	NEG	9	9	0	Culture	CDHS, MDL
Soule COP	01/08/91	Adults	NEG	50	5	0	Culture	CDHS, MDL
Sycamore Canyon	12/13/89	Adults	NEG	38	4	0	Culture	CDHS, MDL
				<u>355</u>	<u>55</u>	<u>0</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Yolo</u>								
Cache Creek	04/21/99	Adults	POS	200	20	3	IFA	Rocky Mt Lab
Cache Creek	05/13/99	Nymphs	POS	60	6	1	Culture	Rocky Mt Lab
Cache Creek Canyon RP	04/11/91	Adults	NEG	51	5	0	Culture	CDHS, MDL
Cache Creek Canyon RP, Rayhouse Rd	06/22/93	Nymphs	POS	47	5	1	Culture	CDHS, MDL
				<u>358</u>	<u>36</u>	<u>5</u>		

LOCATION	DATE	SPECIM	RESULT	#POOLED	#POOLS	#POS	TEST	LABORATORY
<u>Yuba</u>								
Tahoe NF, Camptonville	03/19/98	Females	POS	27	3	2	IFA	Butte MVCD
Tahoe NF, Camptonville	03/19/98	Males	NEG	27	3	0	IFA	Butte MVCD
Tahoe NF, Sunset Vista	03/19/98	Females	NEG	4	0	0	IFA	Butte MVCD
Tahoe NF, Sunset Vista	03/19/98	Males	NEG	7	0	0	IFA	Butte MVCD
Timbuctoo	03/08/88	Adults	NEG	11	1	0	Culture	CDHS, MDL
				<u>76</u>	<u>7</u>	<u>2</u>		

Count: **498**

Total: 18239 4056 159



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